

	Type	L #	H #	Search Text	DBs
1	BRS	L1	1036	(routing or routed or route! or routes! or router\$1) with databases!	USPAT; US-PGPUB; EPO; JPO; DERWENT;
2	BRS	L2	5885	(routing or routed or route! or routes! or router\$1) with database\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT;
3	BRS	L3	2709	2 and databases!	USPAT; US-PGPUB; EPO; JPO; DERWENT;
4	BRS	L4	527	3 and (updat\$3 or modif\$6) near6 databases!	USPAT; US-PGPUB; EPO; JPO; DERWENT;
5	BRS	L5	512	4 and (updat\$3 or modif\$6) near4 database\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT;
6	BRS	L6	239	5 and (707/\$.ccls. or 379/\$.ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
7	BRS	L7	0	6 not @ad> "9990301"	USPAT; US-PGPUB; EPO; JPO; DERWENT;
8	BRS	L8	181	6 not @ad> "19990301"	USPAT; US-PGPUB; EPO; JPO; DERWENT;
9	BRS	L9	55	8 and search\$3 near4 database\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT;
10	BRS	L10	29	9 and (database or field or record or row or column or attribute) near (ID or identifier or identification)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
11	BRS	L11	5	10 and quer\$5 near5 (routing or routed or route! or routes! or router\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT;

	Type	L #	Hits	Search Text	DBs
1	BRS	L1	2283	(route! or router or routes! or routed! or routing) same ((database or data-base or (data adj base)) and quer\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
2	BRS	L2	34	updat\$6 near2 ((databases! or data-bases! or (data adj bases!)) and quer\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
3	BRS	L3	10	1 and 2	USPAT; US-PGPUB; EPO; JPO; DERWENT;
4	BRS	L4	3	3 and search\$6 and server and engine	USPAT; US-PGPUB; EPO; JPO; DERWENT;
5	BRS	L5	1819	updat\$6 near2 (databases! or data-bases! or (data adj bases!))	USPAT; US-PGPUB; EPO; JPO; DERWENT;
6	BRS	L6	230	5 and search\$6 and server and engine	USPAT; US-PGPUB; EPO; JPO; DERWENT;
7	BRS	L7	39	1 and 6	USPAT; US-PGPUB; EPO; JPO; DERWENT;
8	BRS	L8	12	7 and state with ((telephone or tele-phone or phone) adj number)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
9	BRS	L9	12	8 and (sort\$6 or filter\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT;

	Ty pe	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
1	BR S	L2	20	1 and (707/\$.ccls. or 709/\$.ccls.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 09 12:03			0
2	BR S	L3	12	2 and (updat\$6 or modif\$6) near2 record\$1	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 09 12:01			0
3	BR S	L4	1	1 and routing same query	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 09 12:02			0
4	BR S	L5	1971	routing same query	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 09 12:02			0
5	BR S	L6	952	5 and (data-bases! or databases! (data! adj bases!))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 09 12:02			0
6	BR S	L7	229	6 and (707/\$.ccls. or 709/\$.ccls.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 09 12:03			0
7	BR S	L1	44	(compar\$6 near5 records!) near9 (data-bases! or databases! (data! adj bases!))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 09 12:08			0
8	BR S	L8	14	7 and (search\$3 near9 (data-bases! or databases! (data! adj bases!))) near6 query	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 09 12:07			0
9	BR S	L9	810	exclud\$6 near9 search\$5	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 09 12:08			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
10	BR S	L1 1	0	1 and 10	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-TR	2002/11/ 09 12:09			0
11	BR S	L1 0	16	9 and (plurality or multiple) adj (data-bases! or databases! (data! adj bases!))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-TR	2002/11/ 09 12:09			0

	Ty pe	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
1	BR S	L1	8	("5369763" or "5987454" or "6144958" or "5684990").pn.	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 14 11:24		0	
2	BR S	L2	1	1 and exclud\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 14 11:26		0	
3	BR S	L3	1	1 and (field or indicator or indication or flag or bit) near9 (delet\$6 and updat\$6)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 14 11:48		0	
4	BR S	L4	540	(indicator or indication or flag) near9 (delet\$6 and updat\$6)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 14 11:45		0	
5	BR S	L5	201	4 and (databases! or data-bases! or (data! adj bases!))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 14 11:50		0	
6	BR S	L6	67	5 and 707/\$.ccls.	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 14 11:50		0	
7	BR S	L7	2	1 and (field or indicator or indication or flag or bit) near6 updat\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 14 11:49		0	
8	BR S	L8	1	1 and (indicator or indication) near6 updat\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 14 11:54		0	
9	BR S	L9	3742	(indicator or indication) near6 updat\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 14 11:50		0	

	Typ e	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
10	BR S	L1 0	483	9 and (databases! or data-bases! or (data! adj bases!))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-FEP	2002/11/ 14 12:04		0	
11	BR S	L1 1	162	10 and 707/\$.ccls.	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-FEP	2002/11/ 14 12:10		0	
12	BR S	L1 2	64	11 and search\$3 and query	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-FEP	2002/11/ 14 11:51		0	
13	BR S	L1 3	30	11 and search\$3 same query	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-FEP	2002/11/ 14 12:08		0	
14	BR S	L1 4	2	13 and (indicator or indication) near6 delet\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-FEP	2002/11/ 14 11:57		0	
15	BR S	L1 5	0	1 and (indicator or indication) near6 delet\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-FEP	2002/11/ 14 11:57		0	
16	BR S	L1 6	1	1 and (indicator or indication) near6 updat\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-FEP	2002/11/ 14 12:04		0	
17	BR S	L1 7	483	10 and (indicator or indication) near6 (updat\$6 and updat\$6)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-FEP	2002/11/ 14 12:15		0	
18	BR S	L1 8	3	17 and (databases! or data-bases! or (data! adj bases!)) same (search\$3 near9 query)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-FEP	2002/11/ 14 12:06		0	

	Typ e	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
19	BR S	L1 9	139	17 and (database or data-base or (data! adj base)) near9 updating	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 14 12:06			0
20	BR S	L2 0	162	17 and ((database or data-base or (data! adj base)) near9 updat\$6) same (databases! or data-bases! or (data! adj bases!))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 14 12:07			0
21	BR S	L2 1	133	17 and ((database or data-base or (data! adj base)) near9 updat\$6) with (databases! or data-bases! or (data! adj bases!))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 14 12:15			0
22	BR S	L2 2	12	21 and search\$3 with query	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 14 12:09			0
23	BR S	L2 3	14	21 and search\$3 same quer\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 14 12:09			0
24	BR S	L2 4	51	21 and 707/\$.ccls.	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 14 12:10			0
25	BR S	L2 5	37	10 and (indicator or indication) near6 (updat\$6 and delet\$6)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 14 12:15			0
26	BR S	L2 6	8	25 and ((database or data-base or (data! adj base)) near9 updat\$6) with (databases! or data-bases! or (data! adj bases!))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 14 12:16			0

	Typ e	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
1	BR S	L1	8	("5369763" or "5987454" or "6144958" or "5684990").pn.	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 14 11:24			0
2	BR S	L2	1	1 and exclud\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 14 11:26			0
3	BR S	L3	1	1 and (field or indicator or indication or flag or bit) near9 (delet\$6 and updat\$6)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 14 11:48			0
4	BR S	L4	540	(indicator or indication or flag) near9 (delet\$6 and updat\$6)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 14 11:45			0
5	BR S	L5	201	4 and (databases! or data-bases! or (data! adj bases!))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 14 11:50			0
6	BR S	L6	67	5 and 707/\$.ccls.	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 14 11:50			0
7	BR S	L7	2	1 and (field or indicator or indication or flag or bit) near6 updat\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 14 11:49			0
8	BR S	L8	1	1 and (indicator or indication) near6 updat\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 14 11:54			0
9	BR S	L9	3742	(indicator or indication) near6 updat\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-EP	2002/11/ 14 11:50			0



	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
10	BR S	L1 0	483	9 and (databases! or data-bases! or (data! adj bases!))	USPAT; US-PGPUB; ; EPO; JPO; DERWENT; JMA-TRIP	2002/11/ 14 11:50			0
11	BR S	L1 1	162	10 and 707/\$.ccls.	USPAT; US-PGPUB; ; EPO; JPO; DERWENT; JMA-TRIP	2002/11/ 14 11:51			0
12	BR S	L1 2	64	11 and search\$3 and query	USPAT; US-PGPUB; ; EPO; JPO; DERWENT; JMA-TRIP	2002/11/ 14 11:51			0
13	BR S	L1 3	30	11 and search\$3 same query	USPAT; US-PGPUB; ; EPO; JPO; DERWENT; JMA-TRIP	2002/11/ 14 11:51			0
14	BR S	L1 4	2	13 and (indicator or indication) near6 delet\$6	USPAT; US-PGPUB; ; EPO; JPO; DERWENT; JMA-TRIP	2002/11/ 14 11:57			0
15	BR S	L1 5	0	1 and (indicator or indication) near6 delet\$6	USPAT; US-PGPUB; ; EPO; JPO; DERWENT; JMA-TRIP	2002/11/ 14 11:57			0
16	BR S	L1 6	1	1 and (indicator or indication) near6 updat\$6	USPAT; US-PGPUB; ; EPO; JPO; DERWENT; JMA-TRIP	2002/11/ 14 11:57			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	BR S	L1	48	("4774655" or "4845658" or "5369763" or "5511186" or "5761663" or "5884304" or "6018733" or "6023696" or "6144958" or "5859972" or "5404295" or "5548770" or "5600831" or "5675785" or "5987454" or "5826261" or "6243715" or "5566235" or "5369763" or "6144958" or "4845658" or "4774655").pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/05/23 07:13			0
2	BR S	L3	7	2 and (database\$1 or data-base\$1 or (data! adj base\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/05/23 07:22			0
3	BR S	L4	2	3 and (exclud\$3 or remov\$3 or (duplicat\$6 near4 (remov\$3 or delet\$6)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/05/23 07:17			0
4	BR S	L5	0	3 and ((exclud\$3 or remov\$3 or (duplicat\$6 near4 (remov\$3 or delet\$6))) with record\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/05/23 07:17			0
5	BR S	L6	1	1 and ((exclud\$3 or remov\$3 or (duplicat\$6 near4 (remov\$3 or delet\$6))) with record\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/05/23 07:24			0

	Typ e	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
6	BR S	L2	7	1 and (routing! or routed! or route! or routes! or router\$1) same quer\$5	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IM-TRP	2002/05/ 23 07:21			0
7	BR S	L7	1055 5	((exclud\$3 or remov\$3 or (duplicat\$6 near4 (remov\$3 or delet\$6))) with record\$1)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IM-TRP	2002/05/ 23 07:47			0
8	BR S	L8	89	7 and (routing! or routed! or route! or routes! or router\$1) with quer\$5	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IM-TRP	2002/05/ 23 07:28			0
9	BR S	L9	83	8 and (database\$1 or data-base\$1 or (data! adj base\$1))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IM-TRP	2002/05/ 23 07:22			0
10	BR S	L1 1	13	10 and ((exclud\$3 or remov\$3 or (duplicat\$6 near4 (remov\$3 or delet\$6))) with record\$1)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IM-TRP	2002/05/ 23 07:24			0
11	BR S	L1 0	13	9 and (updat\$3 near6 (databases! or data-bases! or (data! adj bases!))) and records! and fields!	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IM-TRP	2002/05/ 23 07:46			0
12	BR S	L1 2	125	7 and (routing! or routed! or route! or routes! or router\$1) same quer\$5	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IM-TRP	2002/05/ 23 07:46			0
13	BR S	L1 3	40	12 and (707/\$.ccls. or 709/\$.ccls.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IM-TRP	2002/05/ 23 08:19			0
14	BR S	L1 4	29	12 and (707/\$.ccls.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IM-TRP	2002/05/ 23 07:46			0

	Typ e	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
15	BR S	L1 5	133	7 and (updat\$3 near6 (databases! or data-bases! or (data! adj bases!))) and records! and fields!	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-FSP	2002/05/ 23 07:50			0
16	BR S	L1 6	49	15 and (707/\$.ccls.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-FSP	2002/05/ 23 08:03			0
17	BR S	L1 8	658	((exclud\$3 or (duplicat\$6 near4 (purg\$6 or remov\$3 or delet\$6))) near9 record\$1)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-FSP	2002/05/ 23 08:06			0
18	BR S	L2 0	3	19 and (routing! or routed! or route! or routes! or router\$1) same quer\$5	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-FSP	2002/05/ 23 07:50			0
19	BR S	L1 7	5	16 and (routing! or routed! or route! or routes! or router\$1) same quer\$5	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-FSP	2002/05/ 23 07:54			0
20	BR S	L1 9	14	18 and (updat\$3 near6 (databases! or data-bases! or (data! adj bases!))) and records! and fields!	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-FSP	2002/05/ 23 08:02			0
21	BR S	L2 1	10	19 and (707/\$.ccls. or 709/\$.ccls.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-FSP	2002/05/ 23 07:58			0
22	BR S	L2 2	2	18 and (updat\$3 near6 (databases! or data-bases! or (data! adj bases!))) same records! same fields!	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-FSP	2002/05/ 23 08:19			0
23	BR S	L2 3	10	19 and (707/\$.ccls.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-FSP	2002/05/ 23 08:36			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
24	BR S	L2 4	5741	((exclud\$3 or purg\$6 or remov\$6) near4 record\$1) or ((duplicat\$6 near4 (remov\$3 or delet\$6)) near4 record\$1))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/05/ 23 08:26			0
25	BR S	L2 5	687	24 and (707/\$.ccls. or 709/\$.ccls.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/05/ 23 08:19			0
26	BR S	L2 6	509	24 and (707/\$.ccls.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/05/ 23 08:21			0
27	BR S	L2 7	4	25 and (updat\$3 near4 (databases! or data-bases! or (data! adj bases!))) same records! same fields!	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/05/ 23 08:21			0
28	BR S	L2 8	40	25 and (updat\$3 near4 (databases! or data-bases! or (data! adj bases!))) and records! and fields!	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/05/ 23 08:29			0
29	BR S	L2 9	34	28 and (707/\$.ccls.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/05/ 23 08:28			0
30	BR S	L3 0	459	((exclud\$3 or purg\$6 or remov\$6) near4 record\$1) or ((duplicat\$6 near4 (remov\$3 or delet\$6)) near4 record\$1)) same updat\$3	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/05/ 23 08:27			0
31	BR S	L3 1	101	30 and (707/\$.ccls.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/05/ 23 08:28			0

	Ty pe	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
32	BR S	L3 2	11	31 and (updat\$3 near4 (databases! or data-bases! or (data! adj bases!))) and records! and fields!	USPAT; US-PGPUB ; EPO; JPO; DERWENT; USPAT; US-PGPUB ; EPO; JPO; DERWENT;	2002/05/ 23 08:37			0
33	BR S	L3 3	129	18 and (707/\$.ccls.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; USPAT; US-PGPUB ; EPO; JPO; DERWENT;	2002/05/ 23 08:36			0
34	BR S	L3 4	10	33 and (updat\$3 near4 (databases! or data-bases! or (data! adj bases!))) and records! and fields!	USPAT; US-PGPUB ; EPO; JPO; DERWENT; USPAT; US-PGPUB ; EPO; JPO; DERWENT;	2002/05/ 23 08:37			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	BR S	L1	58	query! adj routing!	USPAT; US-PGPUB ; EPO; JPO; DERWENT; USMA-TRD	2002/05/ 21 15:54			0
2	BR S	L2	41	1 and database\$1	USPAT; US-PGPUB ; EPO; JPO; DERWENT; USMA-TRD	2002/05/ 21 15:55			0
3	BR S	L3	32	2 and (707/\$.ccls. or 709/\$.ccls. or 379/\$.ccls.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; USMA-TRD	2002/05/ 21 15:56			0
4	BR S	L4	13	2 and (707/\$.ccls.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; USMA-TRD	2002/05/ 21 15:57			0
5	BR S	L5	15	1 and (707/\$.ccls.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; USMA-TRD	2002/05/ 21 15:57			0

	Typ e	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
10	BR S	L1 0	8894 9	707/\$.ccls. or 379/\$.ccls.	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JPM-EP	2002/11/ 15 08:58		0	
11	BR S	L1 1	320	10 and databases! near updat\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JPM-EP	2002/11/ 15 10:21		0	
12	BR S	L1 2	73	11 and routing same (database or data-base or (data adj base))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JPM-EP	2002/11/ 15 11:00		0	
13	BR S	L1 3	1105	updat\$6 near (databases! or data-bases! or (data adj bases!))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JPM-EP	2002/11/ 15 09:52		0	
14	BR S	L1 4	349	13 and (707/\$.ccls. or 379/\$.ccls.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JPM-EP	2002/11/ 15 08:58		0	
15	BR S	L1 5	75	14 and routing same (database or data-base or (data adj base))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JPM-EP	2002/11/ 15 09:09		0	
16	BR S	L1 6	52	14 and routing same server	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JPM-EP	2002/11/ 15 09:53		0	
17	BR S	L1 7	13	16 and routing same query	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JPM-EP	2002/11/ 15 09:03		0	
18	BR S	L1 8	20	15 and search\$3 near3 request\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JPM-EP	2002/11/ 15 09:09		0	



	Typ e	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
19	BR S	L1 9	3	18 and (modif\$6 or updat\$6) near9 (search\$3 near3 request\$6)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JPM-EP	2002/11/ 15 09:08			0
20	BR S	L2 0	0	18 and (modif\$6) near9 (search\$3 near3; request\$6)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JPM-EP	2002/11/ 15 09:10			0
21	BR S	L2 1	130	14 and routing and (database or data-base or (data adj base))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JPM-EP	2002/11/ 15 09:35			0
22	BR S	L2 2	26	21 and search\$3 near3 request\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JPM-EP	2002/11/ 15 09:09			0
23	BR S	L2 3	0	22 and (modif\$6) near9 (search\$3 near3; request\$6)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JPM-EP	2002/11/ 15 09:10			0
24	BR S	L2 4	1	14 and (modif\$6) near9 (search\$3 near3; request\$6)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JPM-EP	2002/11/ 15 09:10			0
25	BR S	L2 5	17	15 and server near3 (search or proxy)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JPM-EP	2002/11/ 15 10:36			0
26	BR S	L2 6	128	14 and (telephone or tele-phone or phone) adj number	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JPM-EP	2002/11/ 15 09:21			0
27	BR S	L2 7	29	14 and ((telephone or tele-phone or phone) adj number) same state	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JPM-EP	2002/11/ 15 09:18			0

	Typ e	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
28	BR S	L2 8	0	27 and city same state same ((database or data-base or (data adj base)) adj (id or identifier or identification))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:20			0
29	BR S	L2 9	0	26 and city same state same ((database or data-base or (data adj base)) adj (id or identifier or identification))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:20			0
30	BR S	L3 0	5	26 and city same state and ((database or data-base or (data adj base)) adj (id or identifier or identification))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:43			0
31	BR S	L3 1	5	30 and (telephone or tele-phone or phone) adj number	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:21			0
32	BR S	L3 2	42	14 and routing near8 (database or data-base or (data adj base))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:44			0
33	BR S	L3 3	1	32 and ((database or data-base or (data adj base)) adj (id or identifier or identification))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:44			0
34	BR S	L3 4	75	14 and routing same (database or data-base or (data adj base))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:44			0
35	BR S	L3 5	3	34 and ((database or data-base or (data adj base)) adj (id or identifier or identification))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:45			0

	Typ e	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
36	BR S	L3 6	0	14 and ((database or data-base or (data adj base)) adj (id or identifier or identification)) same state same city	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:47			0
37	BR S	L3 7	2	((database or data-base or (data adj base)) adj (id or identifier or identification)) same state same city	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:46			0
38	BR S	L3 8	5	14 and ((database or data-base or (data adj base)) adj (id or identifier or identification)) and (state same city)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:50			0
39	BR S	L3 9	50	((database or data-base or (data adj base)) adj (id or identifier or identification)) and (state same city)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:51			0
40	BR S	L4 0	17	((database or data-base or (data adj base)) adj (id or identifier or identification)) and (state same city same ((telephone or tele-phone or phone) adj number))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 10:21			0
41	BR S	L4 1	5	40 and updat\$6 near (databases! or data-bases! or (data adj bases!)) and routing	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:53			0
42	BR S	L4 2	5	41 and routing same server	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 10:00			0

	Typ e	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
43	BR S	L4 3	987	databases! near updat\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 10:32			0
44	BR S	L4 4	5	43 and ((database or data-base or (data adj base)) adj (id or identifier or identification)) and (state same city same ((telephone or tele-phone or phone) adj number))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 10:25			0
45	BR S	L4 6	14	45 and state same city same ((telephone or tele-phone or phone) adj number)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 10:36			0
46	BR S	L4 7	0	45 and ((database or data-base or (data adj base)) adj (id or identifier or identification))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 10:46			0
47	BR S	L4 8	13	45 and (routing adj (code or field))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 10:40			0
48	BR S	L4 5	37	43 and (database or data-base or (data adj base)) same search\$3 same routing	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 10:33			0
49	BR S	L4 9	7189	database\$1 near updat\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 10:32			0
50	BR S	L5 0	90	49 and (database or data-base or (data adj base)) same search\$3 same routing	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 11:00			0

	Typ e	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
51	BR S	L5 1	17	50 and state same city same ((telephone or tele-phone or phone) adj number)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; US-PTO	2002/11/ 15 11:23			0
52	BR S	L5 2	18	45 and state and city and ((telephone or tele-phone or phone) adj number)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; US-PTO	2002/11/ 15 10:36			0
53	BR S	L5 4	16	53 and server near3 (search or proxy)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; US-PTO	2002/11/ 15 11:02			0
54	BR S	L5 3	26	50 and state and city and ((telephone or tele-phone or phone) adj number)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; US-PTO	2002/11/ 15 11:07			0
55	BR S	L5 5	15	50 and (routing adj (code or field))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; US-PTO	2002/11/ 15 10:43			0
56	BR S	L5 6	14	55 and search\$3 and quer\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; US-PTO	2002/11/ 15 10:46			0
57	BR S	L5 7	54	50 and search\$3 and quer\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; US-PTO	2002/11/ 15 10:46			0
58	BR S	L5 8	1	57 and (database or data-base or (data adj base)) adj (id or identifier or identification)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; US-PTO	2002/11/ 15 10:48			0
59	BR S	L5 9	14	11 and (database or data-base or (data adj base)) adj (id or identifier or identification)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; US-PTO	2002/11/ 15 10:52			0

	Typ e	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
60	BR S	L6 0	8	1 and (database or data-base or (data adj base)) adj (id or identifier or identification)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FPD	2002/11/ 15 10:55			0
61	BR S	L6 1	10	1 and (database or data-base or (data adj base)) near4 (id or identifier or identification)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FPD	2002/11/ 15 10:59			0
62	BR S	L6 2	3	61 and routing	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FPD	2002/11/ 15 10:58			0
63	BR S	L6 3	112	11 and (database or data-base or (data adj base)) near4 (id or identifier or identification)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FPD	2002/11/ 15 11:23			0
64	BR S	L6 5	11	64 and (database or data-base or (data adj base)) same search\$3 same routing	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FPD	2002/11/ 15 11:02			0
65	BR S	L6 6	11	63 and (database or data-base or (data adj base)) same search\$3 same routing	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FPD	2002/11/ 15 11:02			0
66	BR S	L6 7	12	64 and server near3 (search or proxy)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FPD	2002/11/ 15 11:02			0
67	BR S	L6 4	35	63 and routing same (database or data-base or (data adj base))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FPD	2002/11/ 15 11:25			0
68	BR S	L6 8	48	63 and routing and (database or data-base or (data adj base))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FPD	2002/11/ 15 11:06			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
69	BR S	L6 9	36	68 and ((telephone or tele-phone or phone) adj number)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-TSP	2002/11/ 15 11:07			0
70	BR S	L7 0	197	11 and (database or data-base or (data adj base)) same (id or identifier or identification)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-TSP	2002/11/ 15 11:23			0
71	BR S	L7 2	16	70 and state same city same ((telephone or tele-phone or phone) adj number)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-TSP	2002/11/ 15 11:25			0
72	BR S	L7 3	13	72 and routing same (database or data-base or (data adj base))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-TSP	2002/11/ 15 11:25			0
73	BR S	L7 4	87	70 and ((telephone or tele-phone or phone) adj number)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-TSP	2002/11/ 15 11:25			0
74	BR S	L7 5	35	74 and routing same (database or data-base or (data adj base))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; JMA-TSP	2002/11/ 15 11:25			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	BR S	L2	8	1 and routing	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 08:56			0
2	BR S	L3	7	1 and database near2 updat\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 08:41			0
3	BR S	L4	3	2 and 3	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 08:34			0
4	BR S	L1	43	("4774655" or "4845658" or "5369763" or "5404295" or "5454105" or "5511186" or "5548770" or "5600831" or "5675785" or "5761663" or "5717748" or "5859972" or "5884304" or "5903636" or "5966712" or "6018733" or "6023696" or "6144958" or "6289339" or "6330555" or "6374241").pn.	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 08:41			0
5	BR S	L5	2	1 and (7607/\$.ccls. or 379/\$.ccls.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 08:41			0
6	BR S	L6	21	1 and (707/\$.ccls. or 379/\$.ccls.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 08:44			0



	Typ e	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
7	BR S	L7	5	6 and databases near2 updat\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-FED	2002/11/ 15 08:44			0
8	BR S	L8	3	6 and databases near updat\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-FED	2002/11/ 15 08:44			0
9	BR S	L9	2	6 and databases! near updat\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-FED	2002/11/ 15 08:45			0
10	BR S	L1 0	8894 9	707/\$.ccls. or 379/\$.ccls.	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-FED	2002/11/ 15 08:58			0
11	BR S	L1 1	320	10 and databases! near updat\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-FED	2002/11/ 15 10:21			0
12	BR S	L1 2	73	11 and routing same (database or data-base or (data adj base))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-FED	2002/11/ 15 08:58			0
13	BR S	L1 3	1105	updat\$6 near (databases! or data-bases! or (data adj bases!))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-FED	2002/11/ 15 09:52			0
14	BR S	L1 4	349	13 and (707/\$.ccls. or 379/\$.ccls.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-FED	2002/11/ 15 08:58			0
15	BR S	L1 5	75	14 and routing same (database or data-base or (data adj base))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM-FED	2002/11/ 15 09:09			0

	Typ e	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
16	BR S	L1 6	52	14 and routing same server	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FED	2002/11/ 15 09:53			0
17	BR S	L1 7	13	16 and routing same query	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FED	2002/11/ 15 09:03			0
18	BR S	L1 8	20	15 and search\$3 near3 request\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FED	2002/11/ 15 09:09			0
19	BR S	L1 9	3	18 and (modif\$6 or updat\$6) near9 (search\$3 near3 request\$6)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FED	2002/11/ 15 09:08			0
20	BR S	L2 0	0	18 and (modif\$6) near9 (search\$3 near3 request\$6)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FED	2002/11/ 15 09:10			0
21	BR S	L2 1	130	14 and routing and (database or data-base or (data adj base))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FED	2002/11/ 15 09:35			0
22	BR S	L2 2	26	21 and search\$3 near3 request\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FED	2002/11/ 15 09:09			0
23	BR S	L2 3	0	22 and (modif\$6) near9 (search\$3 near3 request\$6)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FED	2002/11/ 15 09:10			0
24	BR S	L2 4	1	14 and (modif\$6) near9 (search\$3 near3 request\$6)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FED	2002/11/ 15 09:10			0

	Typ e	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
25	BR S	L2 5	17	15 and server near3 (search or proxy)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 10:36			0
26	BR S	L2 6	128	14 and (telephone or tele-phone or phone) adj number	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:21			0
27	BR S	L2 7	29	14 and ((telephone or tele-phone or phone) adj number) same state	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:18			0
28	BR S	L2 8	0	27 and city same state same ((database or data-base or (data adj base)) adj (id or identifier or identification))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:20			0
29	BR S	L2 9	0	26 and city same state same ((database or data-base or (data adj base)) adj (id or identifier or identification))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:20			0
30	BR S	L3 0	5	26 and city same state and ((database or data-base or (data adj base)) adj (id or identifier or identification))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:43			0
31	BR S	L3 1	5	30 and (telephone or tele-phone or phone) adj number	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:21			0
32	BR S	L3 2	42	14 and routing near8 (database or data-base or (data adj base))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:44			0

	Typ e	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
33	BR S	L3 3	1	32 and ((database or data-base or (data adj base)) adj (id or identifier or identification))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:44			0
34	BR S	L3 4	75	14 and routing same (database or data-base or (data adj base))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:44			0
35	BR S	L3 5	3	34 and ((database or data-base or (data adj base)) adj (id or identifier or identification))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:45			0
36	BR S	L3 6	0	14 and ((database or data-base or (data adj base)) adj (id or identifier or identification)) same state same city	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:47			0
37	BR S	L3 7	2	((database or data-base or (data adj base)) adj (id or identifier or identification)) same state same city	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:46			0
38	BR S	L3 8	5	14 and ((database or data-base or (data adj base)) adj (id or identifier or identification)) and (state same city)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:50			0
39	BR S	L3 9	50	((database or data-base or (data adj base)) adj (id or identifier or identification)) and (state same city)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:51			0

	Typ e	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
40	BR S	L4 0	17	((database or data-base or (data adj base)) adj (id or identifier or identification)) and (state same city same ((telephone or tele-phone or phone) adj number))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 10:21			0
41	BR S	L4 1	5	40 and updat\$6 near (databases! or data-bases! or (data adj bases!)) and routing	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 09:53			0
42	BR S	L4 2	5	41 and routing same server	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 10:00			0
43	BR S	L4 3	987	databases! near updat\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 10:32			0
44	BR S	L4 4	5	43 and ((database or data-base or (data adj base)) adj (id or identifier or identification)) and (state same city same ((telephone or tele-phone or phone) adj number))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 10:25			0
45	BR S	L4 6	14	45 and state same city same ((telephone or tele-phone or phone) adj number)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 10:36			0
46	BR S	L4 7	0	45 and ((database or data-base or (data adj base)) adj (id or identifier or identification))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB	2002/11/ 15 10:46			0

	Typ e	L #	Hits	Search Text	DBs	Time Stamp	Comm ents	Error Definiti on	Errors
47	BR S	L4 8	13	45 and (routing adj (code or field))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FED	2002/11/ 15 10:40			0
48	BR S	L4 5	37	43 and (database or data-base or (data adj base)) same search\$3 same routing	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FED	2002/11/ 15 10:33			0
49	BR S	L4 9	7189	database\$1 near updat\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FED	2002/11/ 15 10:32			0
50	BR S	L5 0	90	49 and (database or data-base or (data adj base)) same search\$3 same routing	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FED	2002/11/ 15 10:33			0
51	BR S	L5 1	17	50 and state same city same ((telephone or tele-phone or phone) adj number)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FED	2002/11/ 15 10:34			0
52	BR S	L5 2	18	45 and state and city and ((telephone or tele-phone or phone) adj number)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FED	2002/11/ 15 10:36			0
53	BR S	L5 4	16	53 and server near3 (search or proxy)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FED	2002/11/ 15 10:37			0
54	BR S	L5 3	26	50 and state and city and ((telephone or tele-phone or phone) adj number)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FED	2002/11/ 15 10:39			0
55	BR S	L5 5	15	50 and (routing adj (code or field))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FED	2002/11/ 15 10:43			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
56	BR S	L5 6	14	55 and search\$3 and quer\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FDB	2002/11/15 10:46			0
57	BR S	L5 7	54	50 and search\$3 and quer\$6	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FDB	2002/11/15 10:46			0
58	BR S	L5 8	1	57 and (database or data-base or (data adj base)) adj (id or identifier or identification)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FDB	2002/11/15 10:48			0
59	BR S	L5 9	14	11 and (database or data-base or (data adj base)) adj (id or identifier or identification)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IPM-FDB	2002/11/15 10:48			0

	Type	L #	Hits	Search Text	DBs
1	BRS	L1	944	((search\$3 or quer\$4) near6 (updat\$3 near4 database))	USPAT; US-PGPUB; EPO; JPO; DERWENT;
2	BRS	L2	30	1 and ((indication or indicator or flag) near9 ((updat\$3 or modif\$6) near4 record))	USPAT; US-PGPUB; EPO; JPO; DERWENT;
3	BRS	L3	23	2 and address\$2 and ((telephone or tele-phone or phone) adj2 number)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
4	BRS	L5	0	4 and (707/3.ccls. or 379/\$.ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
5	BRS	L4	22	2 and address\$2 same ((telephone or tele-phone or phone) adj2 number)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
6	BRS	L6	22	4 and (updat\$3 near4 databases!)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
7	BRS	L7	239	1 and (updat\$3 near4 databases!)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
8	BRS	L9	0	8 and state! same ((telephone or tele-phone or phone) adj2 number)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
9	BRS	L10	23	8 and ((telephone or tele-phone or phone) adj2 number)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
10	BRS	L8	25	7 and ((indication or indicator or flag) near9 ((updat\$3 or modif\$6) near4 record))	USPAT; US-PGPUB; EPO; JPO; DERWENT;
11	BRS	L11	10	7 and routing same query same search\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT;
12	BRS	L12	9	11 and (city or state) same ((telephone or tele-phone or phone) adj2 number)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
13	BRS	L13	2	11 and (city or state) same ((telephone or tele-phone or phone) adj2 number) same (database or record)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
14	BRS	L14	1078	routing adj4 database	USPAT; US-PGPUB; EPO; JPO; DERWENT;
15	BRS	L15	477	14 and ((search\$3 or quer\$4) near6 database)	USPAT; US-PGPUB; EPO; JPO; DERWENT;



	Type	L #	Hits	Search Text	DBs
16	BRS	L16	218	15 and (updat\$3 near4 database)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
17	BRS	L17	79	16 and (updat\$3 near4 databases!)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
18	BRS	L18	5	17 and ((indication or indicator or flag) near9 ((updat\$3 or modif\$6) near4 record))	USPAT; US-PGPUB; EPO; JPO; DERWENT;
19	BRS	L20	0	18 and routing adj database	USPAT; US-PGPUB; EPO; JPO; DERWENT;
20	BRS	L21	353	routing adj database	USPAT; US-PGPUB; EPO; JPO; DERWENT;
21	BRS	L22	169	21 and ((search\$3 or quer\$4) near6 database)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
22	BRS	L23	80	22 and (updat\$3 near4 database)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
23	BRS	L25	0	24 and ((indication or indicator or flag) near9 ((updat\$3 or modif\$6) near4 record))	USPAT; US-PGPUB; EPO; JPO; DERWENT;
24	BRS	L26	1	24 and (indication or indicator or flag) near9 (updat\$3 or modif\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
25	BRS	L24	32	23 and (updat\$3 near4 databases!)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
26	BRS	L27	47	21 same (updat\$3 near4 database)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
27	BRS	L28	20	21 same (updat\$3 near4 databases!)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
28	BRS	L29	353	"routing database"	USPAT; US-PGPUB; EPO; JPO; DERWENT;
29	BRS	L30	20	29 same (updat\$3 near6 databases!)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
30	BRS	L31	3	30 and ((search\$3 or quer\$4) near6 database)	USPAT; US-PGPUB; EPO; JPO; DERWENT;

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31	BRS	L32	3	30 and ((search\$3 or quer\$4) near9 database)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
32	BRS	L33	527	routing near database	USPAT; US-PGPUB; EPO; JPO; DERWENT;
33	BRS	L34	25	33 same (updat\$3 near4 databases!)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
34	BRS	L35	3	34 and (indication or indicator or flag) near9 (updat\$3 or modif\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
35	BRS	L36	0	35 and ((search\$3 same quer\$4) same database)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
36	BRS	L37	0	35 and ((search\$3 same quer\$4) near6 database)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
37	BRS	L38	305	((search\$3 same quer\$4) near6 database)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
38	BRS	L39	4	33 and 38	USPAT; US-PGPUB; EPO; JPO; DERWENT;
39	BRS	L40	1	39 and (updat\$3 near4 databases!)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
40	BRS	L41	3	39 and (updat\$3 near4 database\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
41	BRS	L42	18	38 and (updat\$3 near4 databases!)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
42	BRS	L43	1	((search\$3 same quer\$4 same routing) near6 database)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
43	BRS	L44	103	38 and (updat\$3 near4 database\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
44	BRS	L45	10	44 and (indication or indicator or flag) near9 (updat\$3 or modif\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT;
45	BRS	L46	0	45 and routing near6 database	USPAT; US-PGPUB; EPO; JPO; DERWENT;

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46	BRS	L47	5	42 and routing near6 database	USPAT; US-PGPUB; EPO; JPO; DERWENT;



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**1** Industrial sessions: middle-tier caching: Middle-tier database 77%

 caching for e-business

Qiong Luo , Sailesh Krishnamurthy , C. Mohan , Hamid Pirahesh ,  
Honguk Woo , Bruce G. Lindsay , Jeffrey F. Naughton  
Proceedings of the ACM SIGMOD international conference on  
Management of data June 2002

While scaling up to the enormous and growing Internet population with unpredictable usage patterns, E-commerce applications face severe challenges in cost and manageability, especially for database servers that are deployed as those applications' backends in a multi-tier configuration. Middle-tier database caching is one solution to this problem. In this paper, we present a simple extension to the existing federated features in DB2 UDB, which enables a regular DB2 instance to become a DBCache wi ...

**2** OceanStore: an architecture for global-scale persistent storage 77%

 John Kubiawicz , David Bindel , Yan Chen , Steven Czerwinski ,  
Patrick Eaton , Dennis Geels , Ramakrishna Gummadi , Sean Rhea ,  
Hakim Weatherspoon , Chris Wells , Ben Zhao

Proceedings of the ninth international conference on Architectural  
support for programming languages and operating systems November  
2000

OceanStore is a utility infrastructure designed to span the globe and provide continuous access to persistent information. Since this infrastructure is comprised of untrusted servers, data is protected through redundancy and cryptographic techniques. To improve

performance, data is allowed to be cached anywhere, anytime. Additionally, monitoring of usage patterns allows adaptation to regional outages and denial of service attacks; monitoring also enhances performance through pro-active movement ...

**3** OceanStore: an architecture for global-scale persistent storage 77%

④ John Kubiawicz , David Bindel , Yan Chen , Steven Czerwinski ,  
Patrick Eaton , Dennis Geels , Ramakrishan Gummadi , Sean Rhea ,  
Hakim Weatherspoon , Westley Weimer , Chris Wells , Ben Zhao  
ACM SIGPLAN Notices November 2000  
Volume 35 Issue 11

**4** Making global digital libraries work: collection services, 77%

④ connectivity regions, and collection views  
Carl Lagoze , David Fielding , Sandra Payette  
Proceedings of the third ACM conference on Digital libraries May 1998

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Larry Kerschberg , Peter D. Ting , S. Bing Yao  
ACM Transactions on Database Systems (TODS) December 1982  
Volume 7 Issue 4

Query processing is investigated for relational databases distributed over several computers organized in a star network. Minimal response-time processing strategies are presented for queries involving the select, project, and join commands. These strategies depend on system parameters such as communication costs and different machine processing speeds; database parameters such as relation cardinality and file size; and query parameters such as estimates of the size and number of tuples in ...

**2** A survey of routing techniques for mobile communications 99%

networks  
S. Ramanathan , Martha Steenstrup  
Mobile Networks and Applications October 1996  
Volume 1 Issue 2

Mobile wireless networks pose interesting challenges for routing system design. To produce feasible routes in a mobile wireless network, a routing system must be able to accommodate roving users, changing network topology, and fluctuating link quality. We discuss the impact of node mobility and wireless communication on routing system design, and we survey the set of techniques employed in or proposed for routing in mobile wireless networks.

**3** CNMGRAF—graphic presentation services for network management 98%

Richard S. Gilbert , Wolfgang B. Kleinöder

ACM SIGCOMM Computer Communication Review , Proceedings of the ninth symposium on Data communications September 1985

Volume 15 Issue 4

Two key problems in the design of systems and network management applications are: how to efficiently manage large quantities of related data, and how to allow the application user to view this data at a user-defined level of detail. This paper describes an architecture for network management facilities that may help solve these problems. It also describes CNMgraf (Communications Network Management Graphics Facility), which was developed to test the presentation service model defined by thi ...

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Query routing: applying systems thinking to Internet search

- Leach, P.J. Weider, C.

Microsoft Corp., Redmond, WA, USA

*This paper appears in:* Operating Systems, 1997., The Sixth Workshop on Hot Topics in

On page(s): 82 - 86

5-6 May 1997

Cape Cod, MA, USA  
1997

ISBN: 0-8186-7834-8

IEEE Catalog Number: 97TB100133

Number of Pages: xi+141

References Cited: 10

INSPEC Accession Number: 5602946

**Abstract:**

As the Internet continues to grow exponentially, locating desired information becomes more difficult. Centralized approaches to the problem may prove unable to cope with this growth, and existing distributed ones do not scale well either, so it would be wise to investigate alternatives. One alternative is 'query routing', a technology which uses compressed indices from multiple sites to 'route' queries to where they may be able to be fulfilled. By using a referral model for the clients, it should be possible to provide a service which scales for both clients and servers. Server scaling is achieved by index compression along several novel axes. Allowing the generation of false positives permits the use of techniques which have higher compression. We have been able to add techniques from distributed naming systems such as DNS to traditional indexing based on flat sets of attribute value pairs. We have implemented a prototype that incorporates several of these techniques.

**Index Terms:**

Internet information retrieval indexing client-server systems query processing query routing systems thinking Internet search compressed indices multiple sites referral model clients server scaling index compression distributed naming systems DNS flat sets attribute value pairs information retrieval client/server systems

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**1 Distributed search in P2P networks**

*Waterhouse, S.; Doolin, D.M.; Kan, G.; Faybishenko, A.*

IEEE Internet Computing , Volume: 6 Issue: 1 , Jan.-Feb. 2002

Page(s): 68 -72

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**2 Cache-aware query routing in a cluster of databases**

*Rohm, U.; Bohm, K.; Schek, H.-J.*

Data Engineering, 2001. Proceedings. 17th International Conference on , 2001

Page(s): 641 -650

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**3 eBroker: an agent-based query routing system for distributed E-commerce databases**

*Yong Lin; Ee-Peng Lim; Wee-Keong Ng*

Parallel and Distributed Systems, 2000. Proceedings. Seventh International Conference on , 2000

Page(s): 517 -522

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**4 An architecture of the distributed multimedia information retrieval network with query routing systems**

*Kawasaki, Y.; Sunahara, H.*

Multimedia and Expo, 2000. ICME 2000. 2000 IEEE International Conference on , Volume: 2 , 2000

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**5 A query propagation approach to improve CORBA Trading Service scalability**

*Tari, Z.; Craske, G.*

Distributed Computing Systems, 2000. Proceedings. 20th International Conference on , 2000

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**6 A hierachical location management architecture for wireless ATM networks**

*Kim, H.C.; Biswas, S.K.*

Global Telecommunications Conference, 1999. GLOBECOM '99 , Volume: 1a , 1999

Page(s): 251 -258 vol.1a

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**7 Integration of diverse hypermedia link servers using request routing**

*De Roure, D.; Walker, N.; Carr, L.*

Database and Expert Systems Applications, 1999. Proceedings. Tenth International Workshop on , 1999

Page(s): 667 -671

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**8 Metrics for evaluating database selection techniques**

*French, J.C.; Powell, A.L.*

Database and Expert Systems Applications, 1999. Proceedings. Tenth International Workshop on , 1999

Page(s): 726 -730

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**9 Query routing in large-scale digital library systems**

*Ling Liu*

Data Engineering, 1999. Proceedings., 15th International Conference on , 1999

Page(s): 154 -163

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**10 DOK-Trader: a CORBA persistent trader with query routing facilities**

*Craske, G.; Tari, Z.; Kumar, K.R.*

Distributed Objects and Applications, 1999. Proceedings of the International Symposium on , 1999

Page(s): 230 -240

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**11 Cooperative agents in distributed indexing and retrieval**

*Miguel Rio; Macedo, J.; Freitas, V.*

Intelligent Processing Systems, 1997. ICIPS '97. 1997 IEEE International Conference on , Volume: 1 , 1997

Page(s): 165 -169 vol.1

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**12 Query routing: applying systems thinking to Internet search**

*Leach, P.J.; Weider, C.*

Operating Systems, 1997., The Sixth Workshop on Hot Topics in , 1997

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**13 A dynamic query scheduling framework for distributed and evolving information systems**

*Ling Liu; Pu, C.*

Distributed Computing Systems, 1997., Proceedings of the 17th International Conference on , 1997

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**14 An adaptive approach to query mediation across heterogeneous information sources**

*Liu, L.; Pu, C.; Lee, Y.*

Cooperative Information Systems, 1996. Proceedings., First IFCIS International Conference on , 1996

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databases and (query &lt;near/4&gt; routing) and (update &lt;near/5&gt; databases)

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Computers and Communications, 1989. Conference Proceedings., Eighth Annual International Phoenix Conference on , 1989

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A model for determining the optimal topology and database allocation in computer networks  
- [Raghuram, A.](#) [Morgan, T.W.](#) [Julien-Laferrriere, P.](#) [Stiles, G.S.](#)  
Center for Comput. Inf. Networks Res., Drexel Univ., Philadelphia, PA, USA

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**Abstract:**

The authors propose a comprehensive model to be used in the design of distributed database networks. The designer has a number of decisions to make, including the allocation of databases to nodes, the location and capacity of communication lines between the nodes, and the amount of computational power required at each node. The designer must consider storage and maintenance costs of the databases, the expected traffic from each node to each database, and the desired time of a response to queries and updates to the databases. The proposed model considers these factors and, in addition, routing of the queries and updates; both one- and two-hop paths are included. The model accounts for the costs of the communication lines and processors, the storage and maintenance costs of databases, and the communication costs of queries and updates. The traffic from each node to each database is specified by the designer. Given a maximum desired response time to a query or update, the design goal becomes the minimization of the total operating cost of the network.

**Index Terms:**

[model](#) [optimal topology](#) [database allocation](#) [computer networks](#)  
[capacity](#) [communication lines](#) [computational power](#) [storage](#)  
[maintenance costs](#) [minimization](#) [computer networks](#) [distributed databases](#)

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